Cedar Creek Trail Design Update

PARKS ADVISORY BOARD MEETING

MARCH 7, 2016

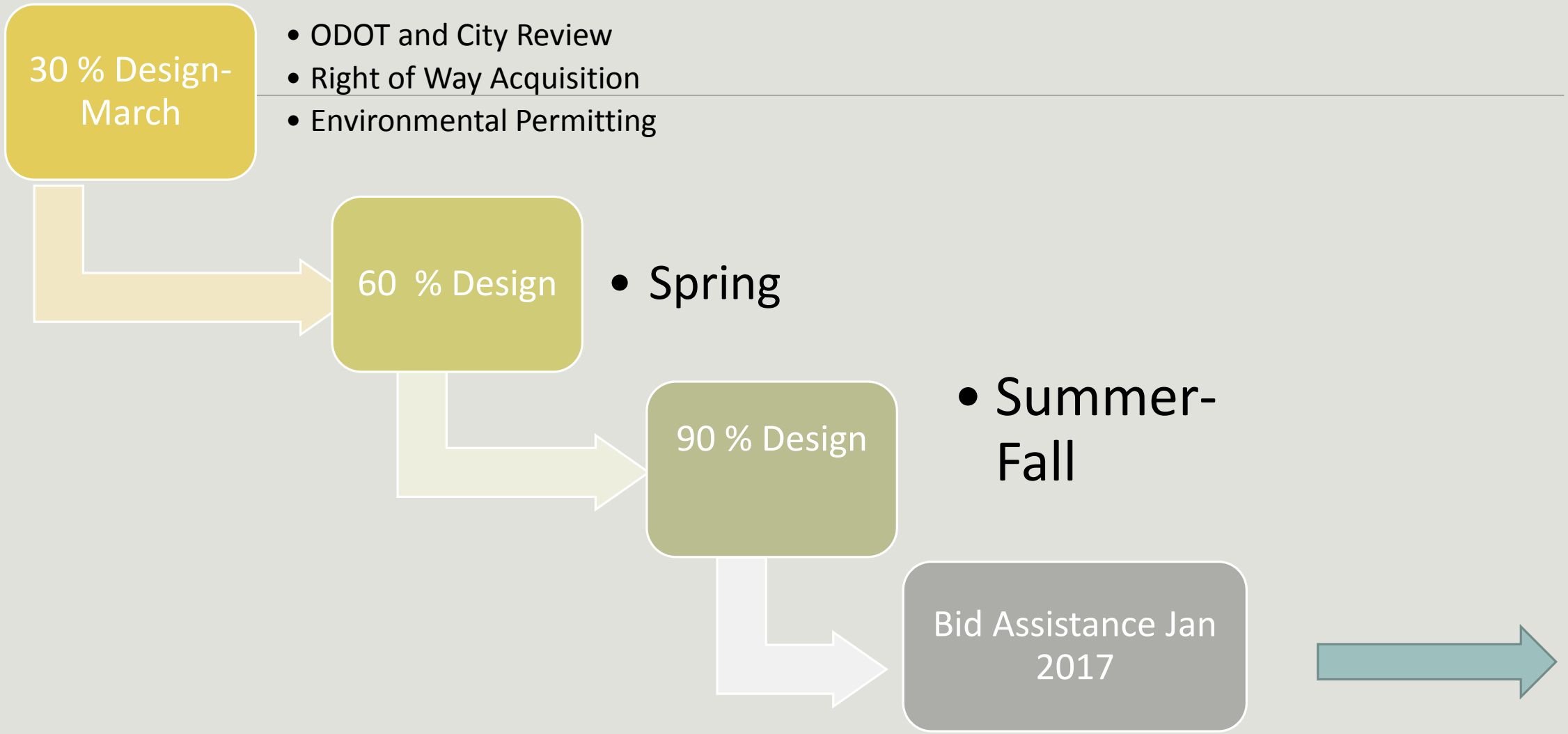
Project 1 Status (SW Murdock to 99W)

- 30 % design submittal
- Held FAHP Biological Opinion Meeting (Endangered Species Act)
- Schedule delay: 45 days out due to modifications of design
- Right of way acquisition negotiations can begin
- Rough Cost Estimates

Cedar Creek Greenway

Oregon Street

Process and Timeline



Project 2 Status (99W to SW Roy Rogers)

- Survey work continues
- Develop preliminary design
- LTAC/TTAC for review (May)
- Behind due to weather and brush clearing
- Open House for Review of Designed Alignment

Project 2 Alignment

Roy Rogers to 99W

Trail Materials

Hard Trail Surfaces

General Considerations:

- User acceptance and satisfaction
- Accessibility-Federal ADA requirements
- Cost to purchase and install materials
- Cost of maintaining the surface
- Life expectancy
- Availability of material

ASPHALT

- Most common for trails
- Serves a variety of users
- Edges crumble over time
- Overlay and Renovations for 10-20 years
- Greater excavation near trees’ roots

PERMEABLE ASPHALT

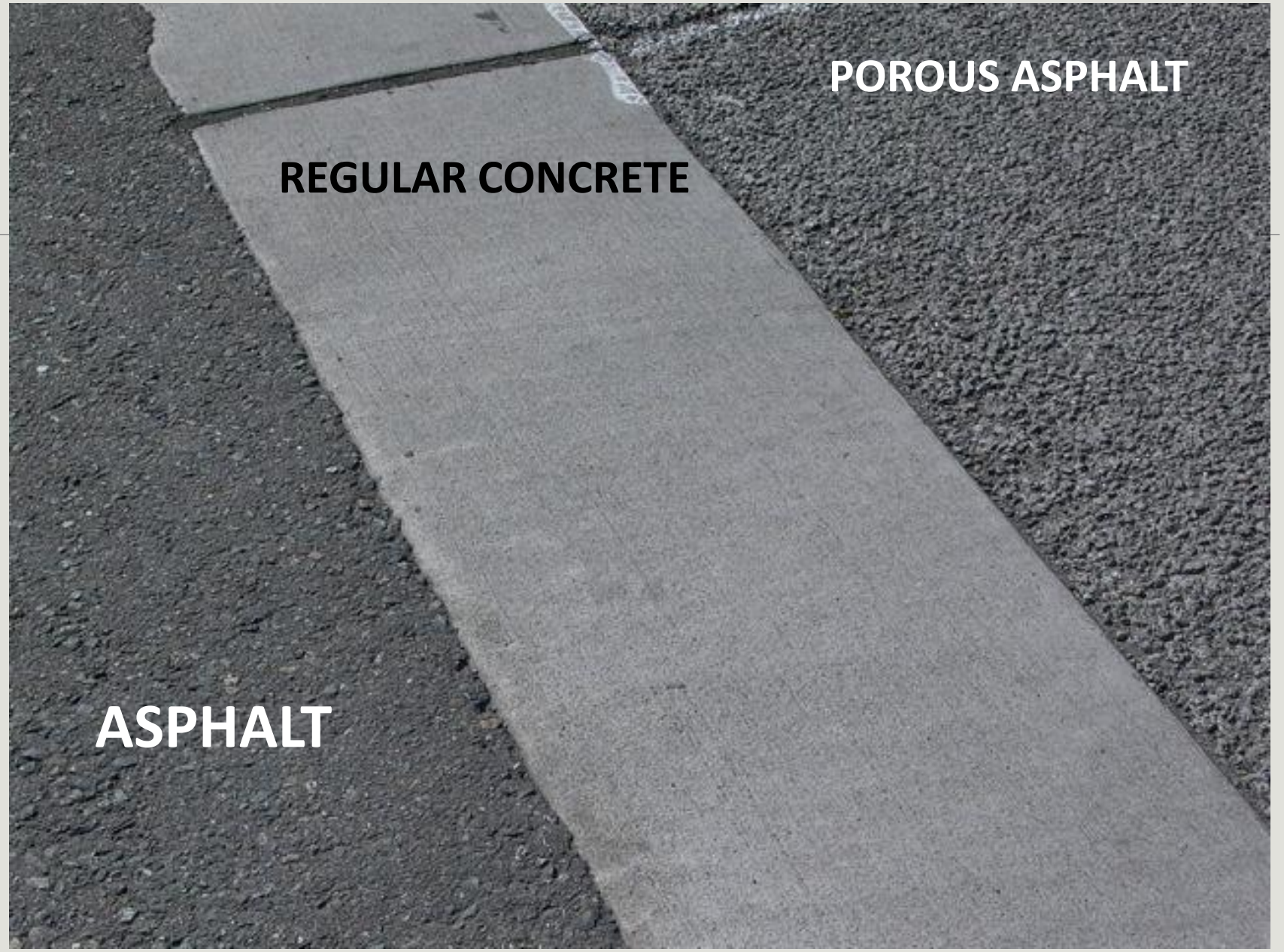
Similar to Asphalt

Reduces run-off

Regular maintenance to prevent pores from filing

Softer surface better for runners

SURFACE COMPARISON



CONCRETE

TUALATIN RIVER GREENWAY TRAIL

MOST DURABLE

MINIMAL MAINTENANCE

HIGH INSTALLATION COST

USE: NEAR STREET SECTIONS

LEAST NATURAL LOOKING

PERMEABLE CONCRETE

DURABLE

GOOD DRAINAGE

NONSKID SURFACE

BOARDWALK

Used in sensitive areas like streams environmental zones

Much more expensive

Lasts 10 years

Comparison Matrix

	INSTALL COST	MAINTENANCE COST	LIFE EXPENCTANCY	USER EXPERIENCE
ASPHALT	LOWEST	HIGHEST POTHOLE PATCHES	LOWER 10 YEARS	RUNNERS + CYCLIST NEUTRAL
POROUS ASPHALT	LOWER	VACUUM SWEEP PRESSURE WASH PATCH	LOWEST 8 YEARS	BEST FOR RUNNERS
CONCRETE	HIGHER	LOWEST- UPLIFT REPAIR SKILLED REPAIRS	HIGHEST 25 YEARS	WALKERS AND CYCLISTS
POROUS CONCRETE	HIGHEST	VACUUM SWEEP PRESSURE WASH	HIGHER	MORE ROUGH FOR CYCLISTS
BOARDWALK	MOST EXPENSIVE	MEDIUM PRESSURE WASH	MEDIUM	WORST FOR CYCLISTS

TRAIL MAINTENANCE

POWER WASH ANNUALLY TO REMOVE ONCE PER YEAR

BLOW DEBRIS 2X PER WEEK IN FALL

1X PER WEEK IN SPRING AND SUMMER

MAINTENANCE CHECK 1X PER WEEK

Annual Cost To Maintain A Quarter-Mile Of Trail In 2009

Trail Type	Annual Cost
Concrete	$745
Asphalt	$2,168
Gravel (in non-washout/flood-prone areas	$1,320
Gravel (in washout/flood-prone areas)	$4,226